

## DynEd's Aviation English Training Solutions

DynEd International, Inc., the world's leading provider of "blended" English language training solutions, is proud to announce the release of **Aviation English for Pilots** and **Aviation English for Controllers**. Developed in conjunction with NASA, the FAA, and a worldwide team of pilot and air traffic experts, including Edgewater College in Ireland, and Aviation English Specialists (AES) and Flight Research Associates (FRA) in the US, these courses were designed specifically to meet ICAO's (the UN's International Civil Aviation Organization) new English language requirements for pilots and air traffic controllers and to help improve air safety.



### Meeting ICAO's English Language Challenge

Aviation safety depends in great measure on effective communication. Language problems at the heart of a large number of disasters and near-disasters have prompted ICAO to establish stringent new language standards intended to significantly improve and maintain the English language proficiency of aviation professionals. The ICAO mandate specifies that in order to stay operational after March 2008 (recently extended to 2011), all pilots and air traffic controllers working international routes must demonstrate a high level of fluency (minimum ICAO Level 4) not only in Aviation English specific phraseology, but, importantly, also in general English – with an emphasis on oral skills.

Level Correlations						
DynEd Level	ICAO	IELTS	TOEIC	TOEF L/PBT	TOEF L/CBT	Council of Europe
3.5+	6		750-			
3.0	5	6	950	630	260	C2
2.5	4	5	600-	540	210	C1
2.0		4	800	480	180	
1.5	3		400-	450	150	B2
1.0	2	3	650	340	60	B1
0.5	1	2	<450	310	30	A2
0.0						A1

DynEd's AE courses, in combination with its award-winning general English programs, were designed to do just that: help trainees quickly develop a level of speaking and listening proficiency that can be relied on in times of stress and unpredictability, reducing language limitations that may interfere with piloting and controller tasks.

The best way to become more familiar with DynEd's programs and our unique blended learning approach is to request a personal demonstration. Until this can be arranged, please click on the following underlined links for additional details:

Aviation English [web page](#)

Introduction to Aviation English [video](#)

Aviation English Placement Test [Guide](#)\*

Aviation English for Pilots [leaflet](#)

Aviation English for Pilots [Teacher's Guide](#)\*

Aviation English for Controllers [Teacher's Guide](#)\*

\* DynEd's Teacher's Guides are password protected to prevent access by students. Should you wish to review these documents, please contact [support@dyned.com](mailto:support@dyned.com) to receive the download details.

Our web pages also provide details about all of the other components of DynEd's Aviation English solution, including information about the general English courses that are used in conjunction with *Aviation English*, such as [New Dynamic English](#) and [English by the Numbers](#); DynEd's special [Placement Test](#) for Aviation English, and DynEd's award-winning [Records Manager](#), [Intelligent Tutor](#), and [Path Manager](#). There is also information about the theoretical underpinnings of DynEd's approach to language acquisition in the following [articles](#).

## Overview of DynEd's Aviation English Training Solution

### For Clients

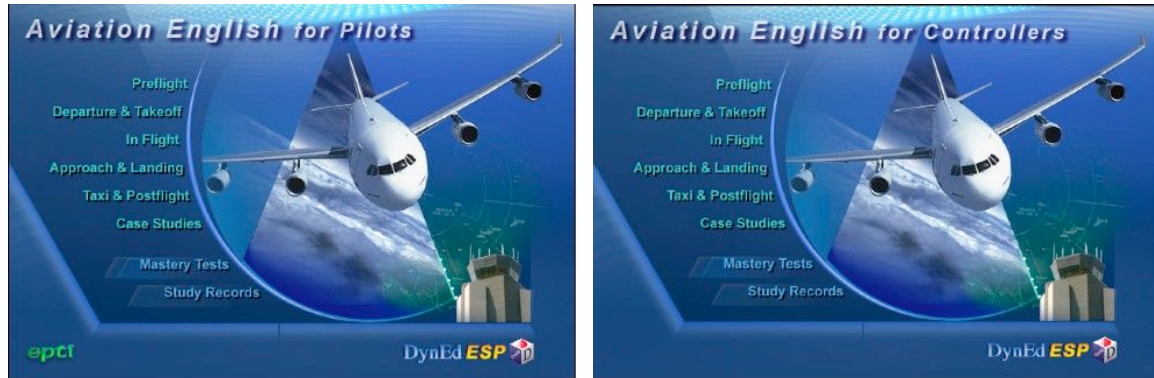
<b>Aviation Safety</b>	THE primary goal
<b>ICAO Level 4</b>	...Or more, <i>guaranteed</i>
<b>Cost Effectiveness</b>	Flexible design to keep trainees operational throughout, with no downtime
<b>Blended Approach</b>	The best of both worlds: structured self-study + periodic teacher/tutor support
<b>Flexible Access</b>	Study on- or off-line; truly anywhere, anytime (even without the Internet!)
<b>Fastest Possible Results</b>	Neuroscience/Skills/Concept-based system designed for the way the brain acquires languages
<b>True Oral Proficiency/Fluency</b>	Listening and speaking-based, <i>not</i> text-based. Includes a wide variety of accents, both European and American aviation phraseology, Speech Recognition.
<b>Comprehensive Syllabus</b>	General English, as well as separate, specialized programs for both pilots and ATCs, covering both general fluency and standard and non-standard/emergency scenarios
<b>Placement Testing</b>	Aviation specific, plus fluency analysis using Speech Recognition; correlated to ICAO levels, and standardized tests, such as TOEIC®, TOEFL®, and Cambridge exams.
<b>Individualized Study Paths</b>	Tailor-made for each student, responsive to slower and faster students; based on best study practices but completely controllable by teacher/tutor
<b>Achievement Testing</b>	Comprehensive measurement and monitoring of progress through Mastery Tests and Intelligent Tutor analyses to keep trainees on track
<b>Quality Assurance</b>	Detailed reports, progress metrics, and guidance for both teachers and trainees
<b>Expert Support</b>	Professional tutoring by aviation experts at ICAO level 3-4 for motivation and safety
<b>Great Technology</b>	Works in Windows, Vista, Mac OS, Linux, networked or non-networked; with sophisticated Speech Recognition, video, graphics, award-winning Records Manager

### DynEd Support For Training Partner Success

<b>Professional Advice &amp; Consultation</b>	Every step, from program setup to project completion
<b>Teacher Training</b>	3 day initial training, with a 1-day follow-up session 1-2 months after program start
<b>Award-Wining Courses</b>	A wide variety to cover all levels in both general and Aviation English, accessible anywhere, anytime, on- or off-line
<b>Placement &amp; Mastery Testing</b>	Comprehensive, built-in testing program, correlated with ICAO Levels and other standard exams
<b>Teacher Support Materials</b>	Student orientations, Teacher Guides, worksheets, built-in lesson plans, ready-made placement and achievement tests
<b>Award-Winning LMS</b>	DynEd's Records Manager with built-in Path Manager and Intelligent Tutor, designed specifically for language learning
<b>Detailed Reports</b>	Through Records Manager & Intelligent Tutor to aid coaching in effective study, to monitor progress, and to ensure learning targets are met by target deadlines
<b>Technical Support</b>	Immediate, professional technical support around the clock to keep trainees on task

## Aviation English Courses

DynEd's *Aviation English for Pilots* and *Aviation English for Controllers* courses have 6 broad units, built around a core language syllabus designed to develop listening and speaking fluency. The focus is on communication examples between pilots and controllers and from pilots to pilots. Dialogs and examples include exchanges provided by NASA, industry associations, public transcripts, and original materials written to specification by experts in both Europe and the US to illustrate key points and variations in accepted phraseology.

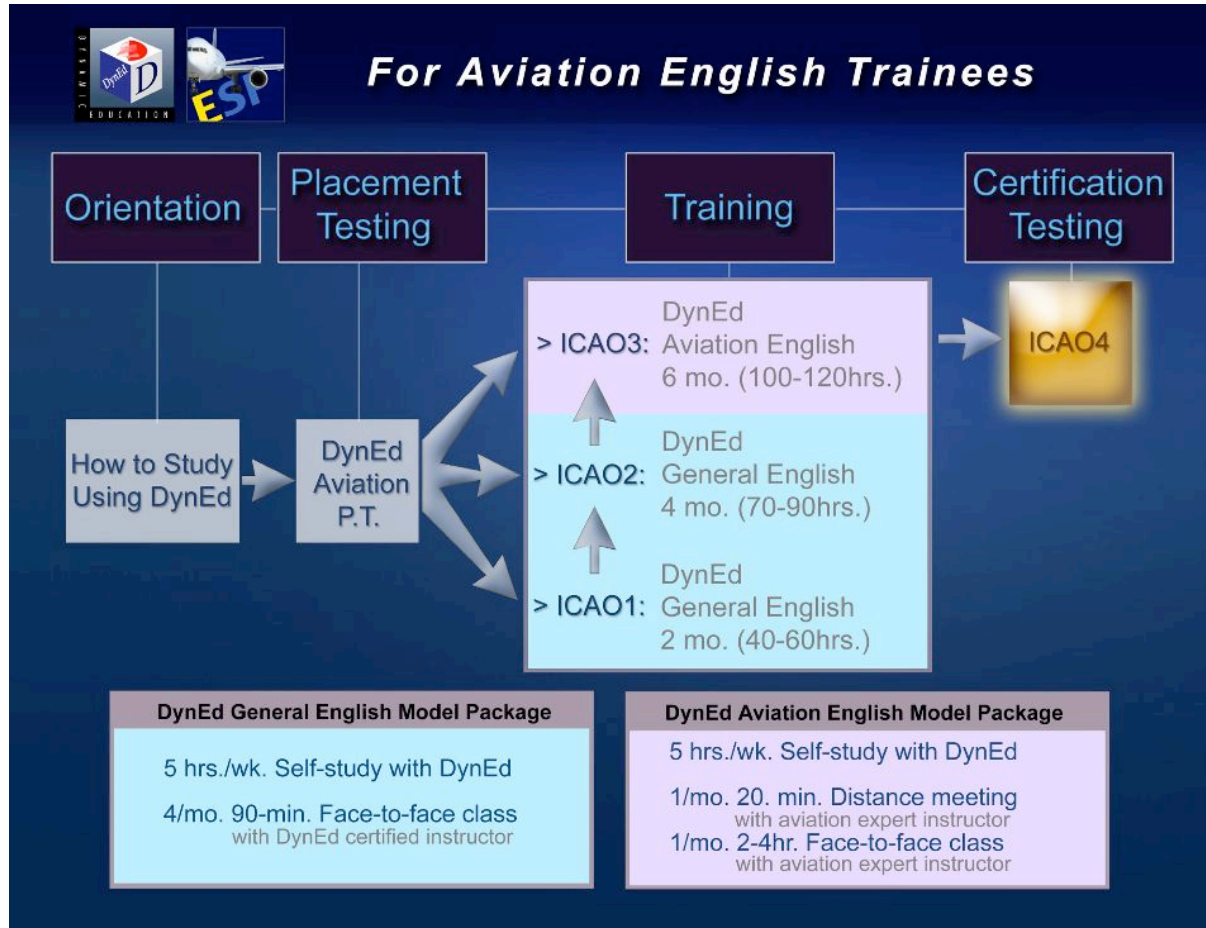


Each Unit presents examples of normal and non-normal situations, with a variety of voices, accents, and background noise. In addition to dialogs and comprehension questions, each Unit has exercises that develop pronunciation, oral fluency, vocabulary, and syntax — in coordination with DynEd's award-winning core courses.

<b>Unit One</b>	<b>Pre-flight</b> Weather, clearance delivery, walk-around inspection, pushback, taxi instructions, CRM, delays, on-ground emergencies, getting to the runway, and more.
<b>Unit Two</b>	<b>Departure &amp; Take-Off</b> Ground navigation, takeoff procedures, emergencies, aborts, fire, traffic issues, wind shear, wake turbulence, bird strikes, weather issues, speed & heading, "without delay", and more.
<b>Unit Three</b>	<b>In Flight</b> Climb, Cruise & Descent: traffic, TCAS, requesting route changes, turbulence, medical emergencies, fire, pressurization, conditional clearances, "until further notice," and more.
<b>Unit Four</b>	<b>Approach &amp; Landing</b> Traffic, flow control, weather, mechanical problems, "at your discretion" vectoring and ILS issues, missed approach, and more.
<b>Unit Five</b>	<b>Taxi &amp; Postflight</b> Taxiway, CRM, medical equipment, navigating unfamiliar airport, gate delays, postflight checklists, shutdown, and more.
<b>Unit Six</b>	<b>Case Studies</b> Historical accounts of emergencies, near accidents, accidents, prevention measures, and related vocabulary.

## Program Objectives, Core Elements, & Procedures

The principal objective for DynEd's Aviation English courses is to improve air safety by helping trainees develop reliable oral English language skills so that they can deal with any emergency, even those that demand instant reactions, and automatic, immediate communication fluency to achieve safe outcomes. A high level of both general English and aviation-specific English is needed to meet these goals, so DynEd's Aviation English Solution includes a broad range of materials in a carefully structured program guaranteed to help students gain confidence and oral fluency, and meet or surpass all ICAO Level 4 certification requirements.



The main goal is to provide an effective, efficient English language program to help ICAO Level 3 trainees to advance to ICAO Level 4 within six months while still remaining operational. This is made possible by the flexibility in where and when students can study, the intelligent program sequencing, and the various monitoring and testing systems which allow trainees to successfully complete the majority of their study without having to be in the classroom. Trainees who test below ICAO Level 3 are first brought up to ICAO Level 3 with a focus on more general English language fluency, so that they are fully prepared to start the final six-month course to reach the ICAO Level 4 target. The steps involved include:

1. Assessment of each participant's actual English language skills.
2. Assignment of an individualized learning path according to the placement level.
3. Extensive self-study on a more or less daily basis in 25-60-minute sessions, whenever and wherever convenient; a minimum of 5 hours/week, spread throughout the week.
4. Constant monitoring and coaching of trainees by instructors to improve study efficiency.
5. Regular achievement testing to ensure trainees are doing what is needed to achieve their targets in the allotted time.
6. Occasional classes or telephone-based follow-up sessions for authentic communication practice, personalization, extension, and motivation.
7. Final certification testing

### Placement Testing

Along with an initial orientation to the program and effective study techniques, all trainees begin by taking DynEd's Aviation English Placement Test to determine what ICAO-equivalent level they presently demonstrate. (DynEd's PT is also correlated to other standardized tests, such as the TOEIC®, TOEFL®, and Cambridge exams.) After the PT, a Mastery Test at the suggested level is also given to reconfirm correct placement.

## Setting of Individualized Study Paths

Once tested, participants are provided individual learning plans appropriate for their present level, as outlined in the table below. Trainees testing below ICAO 3 begin with a focus on general English supported by DynEd-trained instructors until they are ready to start the ICAO Level 3 to 4 program. Depending on their starting level, this option can take between a few weeks or a few months. If a trainee tests at ICAO 3, they can begin the 6-month Aviation English course in combination with their study of general English at more advanced levels that will take them to ICAO 4 and beyond. In addition to DynEd-trained instructors, expert pilot or ATC instructors are also used at this level to support trainees.

Below is an overview of the many academic variables covered by DynEd's Aviation English Solution, including the range of award-winning courses covered, approximate individual self-study and classroom-based study times, as well as an indication of which instructors or expert trainers are involved at different stages.

DynEd Course	ICAO 0	ICAO 1	ICAO 2	ICAO 3	ICAO 4	ICAO 5
<i>First English</i>	All					
<i>New Dynamic English</i>	1	2	3 & 4		5 & 6	7 & 8
<i>The Lost Secret</i>			All			
<i>Aviation English</i>					All	
<i>English by the Numbers</i>					1 to 5	6 & 7
<i>Dynamic Business English</i>					1 & 2	3 to 6
<i>Functioning in Business</i>					1 to 4	5 to 9
<b>Approx # of Months</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>3-4</b>	
<b>Approx Hours Self-Study</b>	30 - 40	30-40	60-70	100-120	50	
<b>Hours Instructor Support</b>	10-15	9-12	15-20	20-30	12-15	
<b>Instructor</b>	DynEd	DynEd	DynEd	DynEd+Expert	DynEd	

## Portability & Control

Trainees have total flexibility over their language learning because DynEd's programs in both general and Aviation English are installed on their personal laptops for easy access and study, even when there is no Internet connection. Trainees need only connect to the Internet occasionally (say, once a week, though more often is better) in order to synchronize their study records, which are stored, and backed up daily, on DynEd's Internet-based servers. DynEd's Records Manager provides a centralized record of all trainee study accomplished anywhere in the world, on- or off-line, making DynEd the most flexible and versatile solution on the market. For trainees, this comprehensive system allows them total flexibility to pick when and where to study without needing to be on line all of the time. For management, this means zero down time and thus huge savings.

## Efficient Language Learning & Fluency Building

DynEd's internationally acclaimed multi-modal system uses an engaging blend of visuals, videos, dialogs and narratives, and a broad range of interactive exercises, including sophisticated speech recognition, all carefully sequenced based on neuroscience principles and designed to provide the essential practice needed for language skill building and fluency development.

## Path Manager & Mastery Tests

Which courses trainees should be studying, at what levels, and for how long, are all automatically managed through DynEd's Path Manager. When a trainee has studied sufficiently as determined by their study records and accuracy in doing the various practice exercises, Mastery Tests are automatically opened up. These success-oriented achievement tests confirm that the relevant language skills at each level have been learned and that a solid foundation is in place before more advanced materials are automatically made accessible by the Path Manager. (Though the Path Manager was designed as an automatic system to help reduce administrative hassles, teachers can still manually override all Path Manager functions and recommendations if they prefer.)

## Monitoring of Progress

A critical component of DynEd's Aviation English solution is that instructors regularly monitor the trainees as they progress through the program. In most cases the trainees are working independently with the courseware while still actively flying. Using DynEd's Records Manager, and analyses provided by DynEd's Intelligent Tutor system, instructors continually track the trainees' academic progress against anticipated targets, and provide regular guidance and coaching to improve the efficiency of trainee study behavior and time on task. The HR Departments of our partners are also welcome and encouraged to participate in this monitoring process at any and all stages of the program's implementation.

## Personalization and Extension

Another crucial role for teachers within the DynEd blended learning system is to provide opportunities for trainees to practice the language they are studying in the multimedia in various communicative contexts, including traditional task-based activities, information gap exercises, presentations, case study discussions, etc. These can be done in one-on-one sessions at a distance over the telephone or Skype, or, preferably when possible, in groups in the classroom. Such activities provide an essential adjunct to trainee self-study, help personalize and extend the more generic content in the multimedia courseware, allow for more detailed discussions of important safety issues, and serve to maintain and heighten trainee motivation.

## Print and Related Support Materials

Detailed Teacher Guides, which include extensive photocopiable worksheets and suggestions for additional written reinforcement, as well as student orientation guides, and technical support documents are automatically included during all installations and made readily available through DynEd's Records Manager (under **Help -> Documentation**). Alternatively, they can also be downloaded from [DynEd's Document Download Center](#). For added convenience, individual lesson plan suggestions and instructions to support both classroom and distance-based telephone support lessons are also provided directly within student records in the Records Manager.

## Aviation Expert Mentoring

While DynEd-trained English teachers continue to support the trainees' general English fluency development throughout the training program, aviation experts are added to the mix at ICAO 3-4 levels, as safety and professional procedure issues arise within the Aviation English courses, to lead a series of classroom activities and discussions to cover detailed standard and non-standard scenarios and ensure safe decision-making.

## Record Keeping, Accountability, and Quality Assurance

All trainee activities are recorded and graded in DynEd's award winning Records Manager. Metrics are provided to monitor skill set goals, maintain progress timelines, and make curriculum adjustments as needed -- all designed to minimize time to fluency. Client training departments have full access to all details and reports for purposes of accountability and on-going quality assurance.

## Certification Testing

The final step for all trainees is certification testing by whatever independent testing instrument has been selected by their country's civil aviation authority. This is typically in the form of either a face-to-face oral interview or a sophisticated distance-based test such as Harcourt Assessment's *Versant Aviation English Test* (VAET) done in conjunction with the FAA in the US. Please contact us if you'd like additional details.

## Pricing

DynEd courses are available on a per student subscription basis with prices varying depending on the level of the trainees. For trainees at ICAO Level 0-3 the subscription fee covers all elements of DynEd's general English courses, including Placement Testing, the Records Manager, etc., for a single, all-inclusive per student per month subscription fee. For trainees at ICAO Level 3-4 there is an added supplemental charge for the specialized Aviation English course used in conjunction with the general English programs.

These subscription fees are available upon request, along with information on the separate fees for any teacher training that may be required, for the provision of DynEd-trained teachers if desired, or for the involvement of any of DynEd's Aviation Experts.

<b>Pilots placed at ICAO Levels 0 to 2</b>	<b>Objective: ICAO Level 3</b>
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<b>Courseware</b>	<i>First English, New Dynamic English, The Lost Secret</i>
<b>Instructor</b>	Trained DynEd courseware instructor
<b>Instructor Interaction</b>	Face-to face and Skype
<b>Academic Monitoring</b>	Included
<b>Additional Study Materials</b>	Workbooks, Study Guides, etc. – Included
<b>Course Duration</b>	Variable depending on participating pilot's initial Placement Test level
<b>Pricing Period</b>	Per Student (Pilot/ATC) Per Month (PSPM)

<b>Pilots placed at ICAO Level 3</b>	<b>Objective: ICAO Level 4</b>
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<b>Courseware</b>	<i>Aviation English for Pilots, New Dynamic English, English by the Numbers, Optional: Dynamic Business English, Functioning in Business, Clear Speech Works, Advanced Listening,</i>
<b>Instructor</b>	Trained DynEd instructor + Expert instructor (pilot/controller)
<b>Instructor Interaction</b>	Face-to face and Skype
<b>Academic Monitoring</b>	Included
<b>Additional Study Materials</b>	Workbooks, Study Guides, etc. – Included
<b>Course Duration</b>	6 months, typically
<b>Pricing Period</b>	Per Student (Pilot/ATC) Per Course (PSPC) or PSPM

## Placement Testing Only Pricing

For the equivalent of the per student per month subscription fee (available upon request), clients may use DynEd Aviation English Placement Test to do a general language audit to determine the ICAO level of all of their pilots or ATCs before committing to training, This fee is waived for trainees who immediately start studying any of our courses.

## Making Aviation English Training Cost Effective

A number of factors affect the true cost of training:

1. How long the training takes.
2. How effective the training is; i.e., whether or not the target fluency levels are achieved.
3. Whether or not pilots and ATCs remain operational during their training.

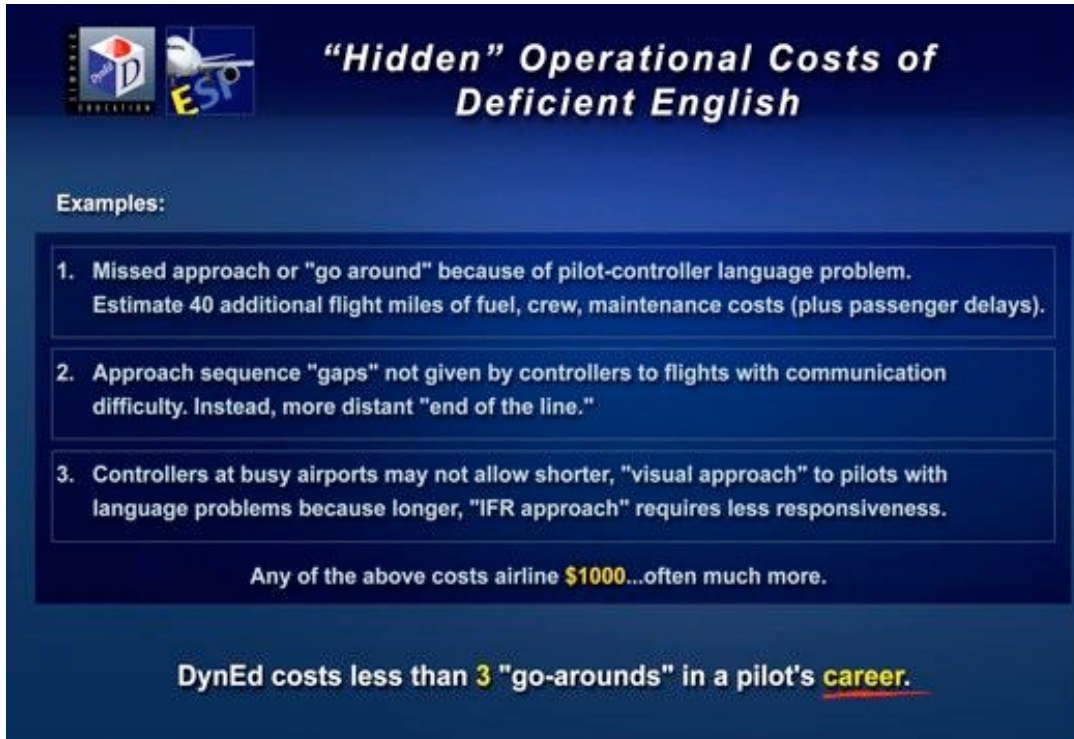
Improving spoken English skills is not easy, and the time required to achieve true proficiency is substantial. Traditional classroom-based teaching, text-heavy materials, self-study e-learning courses, and expensive intensive residential programs seldom succeed. Traditional classrooms often meet too infrequently and are inherently limited in the amount of practice they provide individual students, particularly in listening and speaking skills. Text-based course books may help improve reading skills, but they are not designed to improve the level of oral fluency that is at the heart of ICAO's new requirements. Self-study e-learning materials suffer from a lack of interactivity and authentic communication, and require impossible levels of self-discipline and motivation – dropout rates are overwhelming. Intensive residential programs are expensive in and of themselves, not even counting the huge cost of having pilots or ATCs non-operational, and they are intrinsically inefficient – the organic processes at the heart of learning a new skill respond better to learning spread out over days and weeks in short, frequent study sessions.

To avoid these problems, DynEd uses a skills-based approach that combines intelligently sequenced materials based on neuroscience research on how the brain learns languages, a wide variety of practice modes, including state-of-the-art Speech Recognition technology, specifically oriented toward developing true oral fluency (impossible with text-based approaches), and a blended learning methodology which requires only occasional, limited classroom attendance.

DynEd's proven methods and materials, therefore, are designed to

- maximize learning efficiency, significantly reducing total training time,
- guarantee trainees reach their target of ICAO Level 4 or more
- and eliminate all (or nearly all) downtime for pilots and ATCs, keeping them operational throughout their training.

The key to keeping trainees operational is that upwards of 80% of DynEd's program can be studied independently while still under constant supervision and guidance from teachers and tutors at a distance. DynEd's flexible system allows trainees to study on- or off-line, wherever they may be in the world - truly anywhere, anytime. No matter where or when they study, however, DynEd's award-winning Internet-based *Records Manager* system provides a centralized record of everything they study, monitors their progress, measures their study efficiency so that teacher's can provide regular feedback and guidance, and provides detailed reports, simplifying administrative oversight and management.



**“Hidden” Operational Costs of Deficient English**

**Examples:**

1. Missed approach or “go around” because of pilot-controller language problem.  
Estimate 40 additional flight miles of fuel, crew, maintenance costs (plus passenger delays).
2. Approach sequence “gaps” not given by controllers to flights with communication difficulty. Instead, more distant “end of the line.”
3. Controllers at busy airports may not allow shorter, “visual approach” to pilots with language problems because longer, “IFR approach” requires less responsiveness.

Any of the above costs airline **\$1000**...often much more.

**DynEd costs less than 3 “go-arounds” in a pilot’s career.**

## DynEd Courseware Design Features

DynEd's courseware includes advanced technical features that have been incorporated into the Aviation English solution. These features enhance the learning and teaching experience of trainee pilots and ATCs and the overall effectiveness of their assigned instructors.

**Recursive Hierarchical Recognition.** This breakthrough language learning approach resonates with how the human brain has evolved to search for, recognize, and employ language patterns in predictable ways. Learning proceeds in a recursive fashion, employing the brain's hierarchical memory structure in ways that a linear approach cannot.

**Records Management and Assessment.** DynEd's award-winning Records Manager simplifies class management by allowing teachers and administrators to effectively manage the installation, lesson access, testing, and on-going monitoring of the trainee's activities. Specifically designed for language learning, the Records Manager tracks, analyzes, and makes recommendations that greatly improve the language learning process, reduce costs, and increase student motivation. In addition, the records can be printed or exported into existing database systems. Another important feature of the Records Manager is the **Intelligent Tutor** and its study scoring system. This provides a quick way to assess and modify the quality of study activities.

**Adaptive Shuffler Technology.** DynEd's patented Shuffler technology continuously monitors the progress of trainees and dynamically adjusts the content according to their performance. As a trainee gains proficiency, the number of choices and the depth of the material increases. For trainees having difficulty, the material tends to recycle more often and with fewer variations. In this way, the program responds to the learner and thereby individualizes the presentation and learning tasks.

**Speech Recognition.** DynEd's core courses include a wide variety of Speech Recognition exercises. These motivating, highly effective exercises have proven a very effective way to get learners to do the repetition work necessary to develop oral language proficiency.

**Path Manager.** The Path Manager automatically places learners in their assigned study path through the use of the Placement and Mastery tests, and later opens and closes lessons automatically as the trainee pilot progresses through their assigned DynEd learning paths.

**Placement Test.** DynEd's Placement Tests are computer-adaptive tests that quickly place learners into the appropriate DynEd courses and ensure that they study at the optimum level. Test items are randomized so no two tests are exactly alike. Access to the tests is controlled through the Records Manager.

**Mastery Tests.** DynEd's core courses include a series of Mastery Tests to evaluate the participant's progress and to confirm correct placement into the courses. Access to the Mastery Tests is controlled through the **Records Manager**. Test items are randomly chosen from a sequence of item banks to ensure variation for each learner and from one test occurrence to another.

**Multi-modal Learning.** Language models are presented and practiced in ways that facilitate comprehension and long-term learning. DynEd's unique "iconic" approach coordinates visual information with auditory input in ways not possible with textbooks. This allows the learning sequence to follow the natural path: listening, speaking, reading, and writing.

**Visual Support.** High-quality color graphics and videos provide clear, appropriate visual support for enhanced language input. Attractive layout and a range of characters engage and motivate learners in various presentations, exercises, simulations, and games. DynEd designers are also careful to control the intensity and brightness of colors in an effort to reduce eyestrain, an important consideration for many learners. The use of videos by DynEd is tempered by the fact that although they can be entertaining, they can also be distracting and in many cases are much less effective than graphics at representing important conceptual relationships.

**Fully Interactive.** Learners are active, not passive, when using DynEd's time-based interface. Within a lesson, students can move backward or forward, repeat a sentence or phrase as many times as needed, record and monitor their voices, and see clear visual support that aids comprehension. In addition, learners actively demonstrate the level of their comprehension by completing listening or other tasks that are woven into each lesson and which, in many cases, alter the depth of the presentation through DynEd's patented 'shuffler' mechanism.



For additional information please visit our web site: <http://www.dyned.com>, or write to us at [sales@dyned.com](mailto:sales@dyned.com).